

WHAT IS CLAIMED IS:

1 1. Valve with two pole pieces, wherein at least one
2 pole piece is provided with a first fluid line and a first
3 valve seat, and wherein the fluid line is connected by the
4 valve seat with a valve chamber, in which a valve body can
5 move between at least two switch settings, characterized in
6 that at least one guide piece (15) incorporated in the valve
7 housing is provided to linearly guide the valve body (9) in
8 an axial direction between the switch settings.

1 2. Valve according to Claim 1, characterized in that
2 the guide piece is designed as a guide sleeve (15) with
3 guide elements (23).

1 3. Valve according to one of the preceding claims,
2 characterized in that the guide elements (23) are designed
3 as inner, radial ribs on the guide sleeve (15)

1 4. Valve according to one of the preceding claims,
2 characterized in that the guide element (15) has a fluid
3 passage.

1 5. Valve according to one of the preceding claims,
2 characterized in that the guide piece (15) is made at least
3 partially of plastic.

1 6. Valve according to one of the preceding claims,
2 characterized in that at least one spacer element (15) is
3 provided in the area of the valve chamber (24), which
4 determines the distance of the valve seat (7) from another
5 stop surface (8) for the valve body (5)

1 7. Valve according to one of the preceding claims,
2 characterized in that the spacer element (15) is sleeve-
3 shaped.

1 8. Valve according to one of the preceding claims,
2 characterized in that the guide element (15) is designed as
3 a spacer element.

1 9. Valve according to one of the preceding claims,
2 characterized in that the guide piece (15) is provided with
3 a filter element (16).

1 10. Valve according to one of the preceding claims,
2 characterized in that the second fluid line (10) is designed
3 as an eccentric hole in a pole piece (4).

1 11. Valve according to one of the preceding claims,
2 characterized in that the pole pieces (3, 4) and guide piece
3 (15) are incorporated in a tubular valve housing (2).

1 12. Valve according to one of the preceding claims,
2 characterized in that at least one permanent magnet (13, 14)
3 is provided.

1 13. Valve according to one of the preceding claims,
2 characterized in that the permanent magnet (13, 14) is
3 arranged inside the tubular valve housing (2).

1 14. Valve according to one of the preceding claims,
2 characterized in that the permanent magnet (13, 14) is
3 designed as an annular magnet.

1 15. Valve according to one of the preceding claims,
2 characterized in that the permanent magnet (13, 14) is
3 placed on a projection (11, 12) of a pole piece (3, 4)
4 formed by a cross sectionally tapered segment.

1 16. Valve according to one of the preceding claims,
2 characterized in that the guide piece (15) is provided with
3 a receptacle for a permanent magnet (13, 14).

1 17. Valve according to Claim 16, characterized in that
2 the receptacle encompasses elevations, which bring about a
3 positive connection between the guide piece (15) and at
4 least one permanent magnet.

1 18. Valve according to Claim 17, characterized in that
2 the elevations are deformable.

1 19. Valve according to Claim 17 or 18, characterized
2 in that the elevations are elastic.

1 20. Valve according to one of the preceding claims,
2 characterized in that the tubular valve housing (2) is
3 incorporated in a control coil (21).

1 21. Valve according to one of the preceding claims,
2 characterized in that the valve body (9) encompasses a ball,
3 and the valve seat (7, 8) is at least partially spherical.

1 22. Valve according to one of the preceding claims,
2 characterized in that the valve body (9) is a ball.

1 23. Valve according to one of the preceding claims,
2 characterized in that the outer connecting tubes (18, 19,
3 20) are secured in at least one pole piece (3, 4) to carry
4 the fluid.

1 24. Valve according to one of the preceding claims,
2 characterized in that a third fluid line (6) and a second
3 valve seat (8) are provided to create a so-called 3/2 valve.

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New Claim 1:

1. Valve with two pole pieces, wherein at least one pole piece is provided with a first fluid line and a first valve seat, and wherein the fluid line is connected by the valve seat with a valve chamber, in which a valve body can be moved between at least two switch settings, and wherein at least one guide piece (15) incorporated in the valve housing is provided to linearly guide the valve body (9) in an axial direction between the switch settings, characterized in that the pole pieces (3, 4) and guide piece (15) are incorporated in a tubular valve housing (2).